



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval NMI S453

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Scaime Model SK30X 2000 C3 CH 10e Load Cell

submitted by Kelba (Australia) Pty Ltd
7 Leonard Street
Hornsby NSW 2077

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 60, *Metrological Regulation for Load Cells*, dated July 2004.

This approval becomes subject to review on 1/01/21, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – interim certificate issued	15/12/04
1	Pattern and variant 1 – approved certificate issued	21/03/05
2	Variant 2 – approved – certificate issued	23/03/07
3	Pattern and variants 1 & 2 reviewed – notification of change issued	14/01/11
4	Pattern and variants 1 & 2 updated & reviewed – certificate issued	11/08/16
5	Variant 1 amended (Table 1) – certificate issued	3/05/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S453' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S453' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.



Dr A Rawlinson

TECHNICAL SCHEDULE No S453

1. Description of Pattern **approved on 15/12/04**

A Scaime model SK30X 2000 C3 CH 10e load cell of 2000 kg maximum capacity (Figure 1 and Table 1) approved for use with up to 3000 verification intervals.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 2.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Scaime, France
Model number
Maximum capacity, E_{max} kg
Serial number
Pattern approval mark	NMI S453

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 **approved on 15/12/04**

Certain other models and capacities as listed in Table 1. The pattern (2000 kg) is shown in **bold** text.

TABLE 1 – Specifications (pattern & variant 1)

Type: Scaime SK30X ### C3 CH 10e series where # is the value listed below:

Model SK30X ### C3 CH 10e		300	500	1000	2000	3000	5000
Maximum capacity, E_{max}	kg	300	500	1000	2000	3000	5000
Minimum value of verification interval, V_{min}	kg	0.030	0.050	0.100	0.200	0.3	0.500
Minimum dead load output return value, DR	kg	0.05	0.083	0.167	0.333	0.5	0.833

Characteristics common to all SK30X ### C3 CH 10e series load cells:

Accuracy class	C
Maximum number of verification intervals, nLC	3000
Output rating (nominal), mV/V	2
Input impedance (nominal), (Ω)	385
Supply voltage (AC or DC), Max (V)	15
Cable length (± 0.1 m), (m)	0.5 to 20 m, typically 5 m
Number of leads (plus shield)	6

3. Description of Variant 2

approved on 21/03/07

Certain models and capacities of the Scaime SK30X ### C6 CH 15e 8z series as listed in Table 2.

TABLE 2 – Specifications (variant 2)

Type: Scaime SK30X Series, in models SK30X ### C6 CH 15e 8z where # is the value listed below:

Model SK30X ### C6 CH 15e 8z		500	1000	2000
Maximum capacity, E_{max}	kg	500	1000	2000
Minimum value of verification interval, V_{min}	kg	0.033	0.067	0.133
Minimum dead load output return value, DR	kg	0.0417	0.0833	0.1667

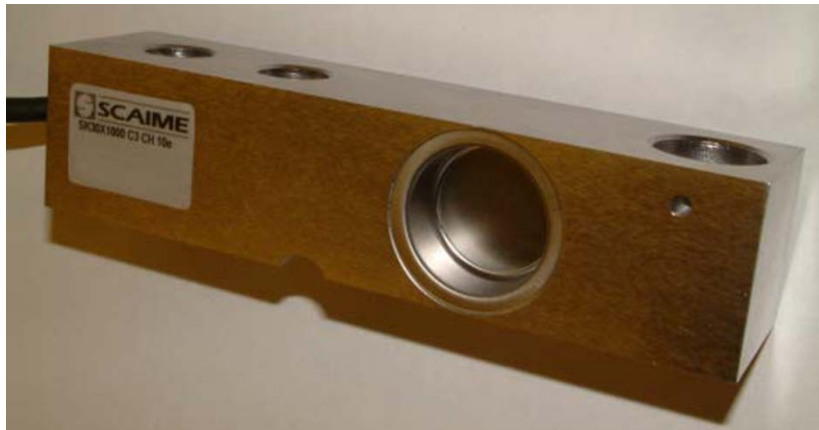
Where the load cell model contains the suffix '8z' and this is included in the markings of the load cell (i.e. model SK30X ### C6 CH 15e 8z) the following DR values apply

Minimum dead load output return value, DR ['8z' version]	kg	0.03125	0.0625	0.125
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Characteristics common to all SK30X ### C6 CH 15e load cells (including '8z' version):

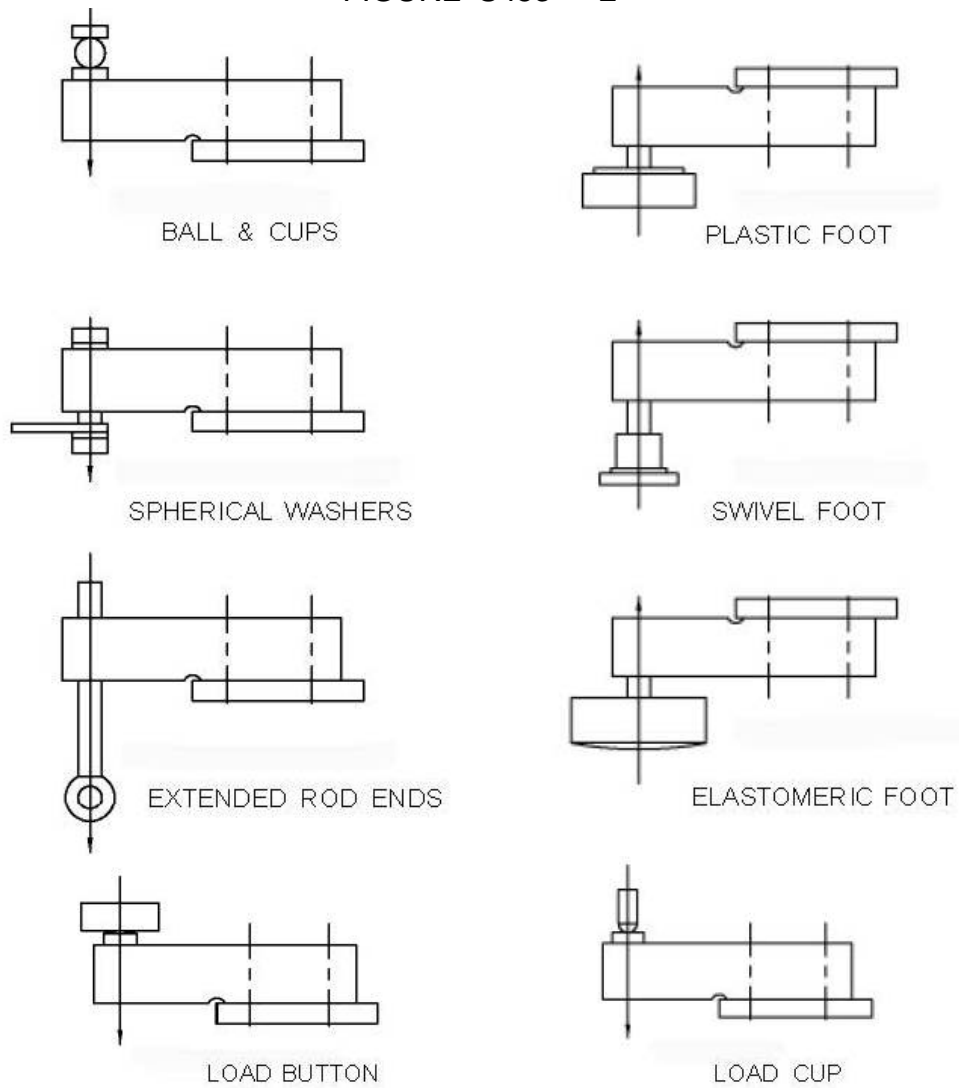
Accuracy class	C
Maximum number of verification intervals, nLC	6000
Output rating (nominal), mV/V	2
Input impedance (nominal), (Ω)	385
Supply voltage (AC or DC), Max (V)	15
Cable length (± 0.1 m), (m)	0.5 to 20 m, typically 5 m
Number of leads (plus shield)	6

FIGURE S453 – 1



Scaime Model SK30X 2000 C3 CH 10e Load Cell

FIGURE S453 – 2



Mounting Methods

~ End of Document ~